

## Technical Data Sheet

### *Microthene* MN71400

Low Density Polyethylene



#### Product Description

*Microthene* G polyolefin powders are ground, irregularly-shaped particles for use in a broad range of specialty applications. *Microthene* G powders combine the unique properties of a polyolefin resin with a small ground particle size.

#### Regulatory Status

For regulatory compliance information, see *Microthene* MN71400 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Automotive Parts; Colour Concentrates; Industrial; Interior Automotive Applications; Structural Parts
<b>Market</b>	Consumer Products; Flexible Packaging; Healthcare; Industrial, Building & Construction
<b>Processing Method</b>	Powders

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	70	g/10 min	70	g/10 min	ASTM D1238
Density, (23 °C)	0.912	g/cm <sup>3</sup>	0.912	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus	27000	psi	186	MPa	ASTM D790
Tensile Strength at Break	1100	psi	7.7	MPa	ASTM D638
Tensile Elongation at Break	400	%	400	%	ASTM D638
<b>Hardness</b>					
Shore Hardness					
(Shore D, max)	51		51		ASTM D2240
(Shore D, 15 sec)	44		44		ASTM D2240
<b>Thermal</b>					
Vicat Softening Point	168.1	°F	75.6	°C	ASTM D1525
Low Temperature Brittleness	-8.9	°F	-22.7	°C	ASTM D746
Peak Melting Point	213.4	°F	100.8	°C	ASTM D3418
<b>Additional Information</b>					
Particle Shape	Irregular		Irregular		LYB Method
Average Particle Size	50	mesh	50	mesh	LYB Method

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

The small size and irregular shape of *Microthene* G powders facilitate dispersion with other components.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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